

**2.1**

1. Write each multiplication as a repeated addition. Then use coloured tiles to find each sum.

a)  $(+2) \times (-1)$    b)  $(+2) \times (+9)$   
c)  $(+3) \times (-3)$    d)  $(+3) \times (+7)$

2. Use a model to find each product.

a)  $(-7) \times (-5)$    b)  $(+10) \times (-6)$   
c)  $(-4) \times (+4)$    d)  $(+6) \times (+8)$

3. The temperature change in a chemistry experiment was  $-2^{\circ}\text{C}$  every 30 min. The initial temperature was  $6^{\circ}\text{C}$ . What was the temperature after 4 h?

4. Will each product be positive or negative? How do you know?

a)  $(+25) \times (-31)$    b)  $(-13) \times (-15)$   
c)  $(-11) \times (+12)$    d)  $(+9) \times (+13)$

**2.2**

5. Find each product.

a)  $(+9) \times (-7)$    b)  $(+4) \times (+7)$   
c)  $(-11) \times (+13)$    d)  $(-40) \times (-22)$

6. Copy each equation. Replace  $\square$  with an integer to make the equation true.

a)  $(-12) \times \square = +72$   
b)  $\square \times (+8) = +80$   
c)  $(+7) \times \square = 0$   
d)  $\square \times (-4) = -60$

7. An old bucket has a small leak. Fifty-five millilitres of water leak out in 1 h. Use integers to find how much water leaks out in 6 h.

8. Write a word problem that could be solved using the expression  $(+5) \times (-7)$ . Solve the problem.